

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

JUL 12 1982

DATE OF PREP.

JULY 1982

Section I

MANUFACTURER'S NAME BOSTIK WEST, DIVISION OF EMHART CORPORATION

STREET ADDRESS 20846 S. NORMANDIE AVE. CITY, STATE, AND ZIP CODE TORRANCE, CA. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

(DMS 1738-36231)

PRODUCT CLASS EPOXY COATING

MANUFACTURERS CODE IDENTIFICATION 463-3-55 TRS

(DMS 1738-36231 GRAY)

CURING SOLUTION: CA-137

TRADE NAME BOSTIK

MIX RATIO: 800 PARTS 463-3-55 TRS (BASE) TO
315 PARTS CA-137 BY WEIGHT.

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT (Wt.)	TLV		LEL	VAPOR PRESSURE
			PPM	mg/M ³		
463-55TRS (BASE)						
BUTYL ALCOHOL ✓	71-36-3	<1.0	100		1.7	4
CELLOSOLVE ACETATE	111-15-9	10-15	100		1.7	2
CYCLOHEXANONE ✓	108-94-1	<1.0	50		1.1	2
METHYL CELLOSOLVE	109-86-4	<1.0	25		2.5	6
METHYL ETHYL KETONE ✓	78-93-3	10-15	200		1.8	70
METHYL ISOBUTYL KETONE ✓	108-10-1	5-10	100		1.4	15
TOLUENE ✓	108-88-3	<1.0	200		1.2	22
XYLENE ✓	1330-20-7	5-10	100		1.0	7
CHROMATE COMPOUNDS, AS Pb ✓	7439-92-1	<1.0	—	*0.05	—	—
CHROMATE COMPOUNDS, AS Cr ✓	7440-47-3	<1.0	—	*0.05	—	—

*OSHA, 8HOURS TWA

Section III - PHYSICAL DATA

BOILING RANGE 176°-340°F VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 61 WEIGHT PER GALLON 11.2 LBS.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL FLAMMABLE

(MIN.) FLASH POINT 23°F, TAG CLOSED CUP

LEL 1.0

EXTINGUISHING MEDIA

Exclude air-Use foam, CO₂, steam, water fog,
dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between
upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray
to cool fire exposed surfaces and to protect
personnel.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

EMERGENCY AND FIRST AID PROCEDURES : Skin Exposure: Wash affected area with soap & water.
Eye Exposure: Flush with water for at least 15 minutes, consult physician.
Ingestion: Consult physician immediately.
Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents. Sparks and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO₂, Aldehydes and other organics, lead fumes, oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound.
WASTE DISPOSAL METHOD Wash area with detergent & water. Consult disposal expert & ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity 60 fpm in confined area.

PROTECTIVE GLOVES : Chemically resistant gloves.

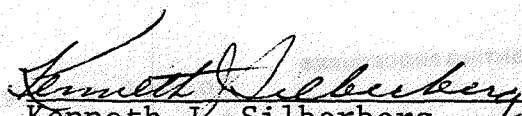
EYE PROTECTION : Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied -these
OTHER PRECAUTIONS containers retain product residues (vapor, liquid, etc.).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.


Kenneth J. Silberberg
Technical Administrative Manager

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STREET ADDRESS 20846 S. NORMANDIE AVE. CITY, STATE, AND ZIP CODE TORRANCE, CA. 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE CURING SOLUTION

(DMS 1738-36231)

TRADE NAME BOSTIK

MANUFACTURERS CODE IDENTIFICATION CA-137

CURING SOLUTION FOR 443-3-55TRS

MIX RATIO: 800 PARTS 443-3-55TRS (BASE)

TO 315 PARTS CA-137 BY WEIGHT.

Section II - HAZARDOUS INGREDIENTS

INGREDIENT CA-137(EPOXY CURING SOLUTION*)	CAS NO.	PERCENT (Wt.)	TLV		LEL	VAPOR PRESSURE
			PPM	mg/M ³		
BUTYL CELLOSOLVE	111-76-2	10-15	50		1.1	1
METHYL ETHYL KETONE	78-93-3	25-30	200		1.8	70
NORMAL BUTYL ACETATE	123-86-4	25-30	150		1.7	8
NORMAL BUTYL ALCOHOL	71-36-3	25-30	100		1.7	4
TOLUENE	108-88-3	1-5	200		1.2	22
*CA-137 MAY ALSO CONTAIN A MINOR AMOUNT OF DIETHYLENE TRIAMINE (DETA):	111-40-0		**1.0		1.4	<1.0
**ACGIH 8 HOURS TWA						

Section III - PHYSICAL DATA

BOILING RANGE 176°-340°F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE
BY VOLUME 95

WEIGHT PER
GALLON 7.1

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE

(MIN.)
FLASH POINT 23°F, TAG CLOSED CUP

LEL 1.1

EXTINGUISHING MEDIA

Exclude air-Use foam, CO₂, steam, water fog,
dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between
upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

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to cool fire exposed surfaces and to protect
personnel.

Section V — HEALTH HAZARD C A

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.

EMERGENCY AND FIRST AID PROCEDURES : Skin Exposure: Wash affected area with soap and water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID Storage at high temperatures. INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents. Sparks & open flame.

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO₂, Aldehydes and other organics, oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

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RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60fpm in confined area.

PROTECTIVE GLOVES Chemically resistant gloves.

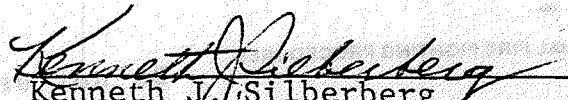
EYE PROTECTION Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT Eye bath & Safety shower.

Section IX — SPECIAL PRECAUTIONS

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